

50 CFR Part 17

Endangered and Threatened Wildlife and Plants; Proposal to Determine *Platanthera leucophaea* (Eastern Prairie Fringed Orchid) and *Platanthera praecleara* (Western Prairie Fringed Orchid) To Be Threatened Species

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Proposed rule.

SUMMARY: The Service proposes to determine *Platanthera leucophaea* (Eastern prairie fringed orchid), and *Platanthera praecleara* (Western prairie fringed orchid) to be threatened species under authority of the Endangered Species Act (Act) of 1973, as amended. Both species have been extirpated throughout much of their former ranges by conversion of habitat to crop fields, overgrazing, intensive and continuous hay mowing, drainage, fire protection activities, and subsequent decline of prairie habitat. *P. leucophaea* remains extant in approximately 51 populations in seven States and two Canadian Provinces; however, many of these are small, unprotected, and unmanaged populations. *P. praecleara* remains extant in about 40 populations in seven States and one Canadian Province; many of these are small hay meadow populations, where plants are annually cropped before seeds are dispersed. This proposal, if made final, would implement the protection provided by the Endangered Species Act of 1973, as amended, for *P. leucophaea* and *P. praecleara*. Critical habitat is not being proposed at this time. The Service seeks data and comments from the public on this proposal.

DATES: Comments from all interested parties must be received by December 12, 1988. Public hearing requests must be received by November 25, 1988.

ADDRESSES: Comments and materials concerning this proposal should be sent to the Endangered Species Coordinator, U.S. Fish and Wildlife Service, Federal Building, Fort Snelling, Twin Cities, Minnesota 55111. Comments and material received will be available for public inspection during normal business hours, by appointment, at the above address.

FOR FURTHER INFORMATION CONTACT: James M. Engel, Endangered Species Coordinator at the above address (612/725-3276 or FTS 725-3276).

SUPPLEMENTARY INFORMATION:

Background

The prairie fringed orchids, *Platanthera leucophaea* and *P. praecleara* are closely related members of the orchid family and are referred to as a species pair (Sheviak and Bowles 1986). Prior to description of *P. praecleara* the two species were considered as *P. leucophaea* with a total range including 21 states and two provinces (Correll 1950, Luer 1975). Their joint distribution pattern extends from Oklahoma north to Manitoba, and east in a narrowing peninsula through the Great Lakes states to Maine. Populations also range westward through Nebraska in groundwater maintained habitats. *P. leucophaea* occurs primarily east of the Mississippi River, while *P. praecleara* is restricted to west of the Mississippi (Sheviak and Bowles 1986). Both species require full sunlight and usually inhabit tall grass calcareous silt loam or sub irrigated sand prairies. In the east, *P. leucophaea* also occupies calcareous wetlands, including open portions of fens, sedge meadows, marshes, and bogs (Bowles 1983).

The prairie fringed orchids are perennial herbs which regenerate from a fusiform tuber rootstock. Their tubers are dormant during winter and thus are adapted to dormant season prairie fires; such fires and high precipitation levels appear to promote flowering (Sheviak 1974, Roosa and Eilers 1979, Bowles 1983, Currier 1984). Leaves and an inflorescence (if flower primordia were set the prior year) usually emerge in May, and flowering begins by late June

to early July. These species are characterized by large white flowers (the largest in the genus) arranged in an inflorescence that may reach 12 decimeters (47 inches) high with up to 40 flowers. The flowers are fragrant after sunset and adapted to pollination by night flying hawkmoths which ingest a high volume nectar resource from long nectar spurs (Bowles 1983). Pollination is required for seed production, while seedling establishment depends upon development of mycorrhizae with a favorable soil inhabiting fungus (reviewed in Bowles 1983). Differences in flower structures and pollination mechanics serve to isolate the species from hybridization; these features can be used to identify living or preserved specimens (Sheviak and Bowles 1986). The western species has larger flowers adapted to placing pollinia (pollen masses) on the compound eyes of visiting pollinators. In contrast, the eastern species places pollinia on the proboscis of visiting moths.

Platanthera leucophaea has declined over 70 per cent from original county records and now has about 51 extant populations in seven states. Primarily due to the destruction of large grasslands east of the Mississippi River, extremely large or extensive populations of this orchid do not exist in the United States. In Canada, 12 populations are known from fens and prairies in 12 Ontario counties; one fen population is estimated at 2,000 plants (Brownell 1984). The plant is also known from New Brunswick, where it is considered rare (Hinds 1983). However, most of these populations are not representative of the once vast prairie habitat that supported most populations of this orchid.

Platanthera leucophaea is presumed extirpated from Oklahoma, where the type specimen was collected by Nuttall in 1819 near the confluence of the Kiamichi and Red Rivers; it may have occurred in similar floodplain habitat in adjacent Arkansas (Sheviak and Bowles 1986). This orchid reached its western range limit in eastern Missouri and Iowa. It has not been relocated in Missouri (Morgan 1980), but one small population with three plants remains in Iowa. In the eastern United States, this

orchid has not been relocated in New York, Pennsylvania, New Jersey, and Indiana; isolated disjunct populations still occur in Maine and Virginia (Bowles 1983). The Maine population occurs on private land in portions of an extensive fen, which is undergoing some invasion by woody vegetation. Flowering plants appear erratically at this site. The current population appears to be about 20 adult individuals (Barbara Vickery, The Nature Conservancy, pers. comm. 1988). The small Virginia populations occur in a sedge meadow subject to light grazing.

The eastern white fringed orchid is known historically from 23 Michigan counties; 18 populations (about half are protected) now are extant from nine counties, where 1322 flowering stems were counted in 1984 (Chapman and Crispin 1985). Southern Michigan populations are small and occur in isolated bog habitats, while several larger populations of over 100 plants occur in lakeside prairies bordering Saginaw Bay. The three largest Michigan populations, totalling about 900 plants, occur on degraded upland prairies bordering Lake Erie. These sites are State owned, but extensive management may be needed to maintain the orchids as their communities go through successional changes. A population near Bay City disappeared after severe flooding in 1986, and has not been observed since (G.T. Higgs, James Clements Airport Advisory Committee, pers. comm. 1988).

Platanthera leucophaea originally occurred in 10 Ohio counties. McCance (Ohio Department of Conservation, pers. comm. 1987) reports only two extant populations in 1987. The larger, containing about 60 flowering plants in 1987, was down from 367 plants in 1982. The other population contained 46 flowering plants in 1984, but only six plants were found in 1987. Two other populations occur in sites frequently inundated by Lake Erie, and their current status is unknown.

In Wisconsin, this orchid originally was known from 17 counties in the south and southeast portions of the state (Alverson 1981). Ten small populations now occur in eight counties. One large population of several hundred plants occurs in a protected Lake Michigan border sand prairie.

Illinois probably contained the largest and most extensive presettlement populations of the eastern prairie fringed orchid and also sustained the most drastic population decline of any state. Originally it was known from tall grass prairie in 33 counties across the northern two thirds of the State, an area now almost totally converted to

agriculture (Bowles and Kurz 1981). Sixteen populations remain in six counties concentrated in the Chicago region; two additional populations occur in cemetery prairies in eastern and western Illinois counties. Only two populations consist of over 100 plants; both are in a Lake Michigan border county. Most populations are protected, and only six occur on private unprotected land.

Platanthera praeclara has experienced over a 60 percent decline according to county records, with about 40 populations remaining in seven states (Bowles and Duxbury 1986). Apparently, it has been extirpated from South Dakota where it was originally known from two counties. Populations in the southern part of this orchid's range seldom are observed. The two Oklahoma populations occur in privately owned hay meadows and were only observed during their original discovery (Magrath and Taylor 1978). This orchid was widespread in eastern Kansas, where it was originally known from 14 counties. Now, populations are reduced to eight counties where it is believed to occur in seven privately owned hay meadows and one University of Kansas research area (R. E. Brooks, U. of Kansas, pers. comm. 1987). Two small populations currently are known to occur in northwest Missouri. One population of five plants occurs on a private tract, while a second, of about 25 plants, is in a hay meadow recently acquired by the state.

Populations in the northern and central portions of the western prairie fringed orchid's range are larger and more extensive, but still reduced in size and range. This orchid probably was most widespread in the deep loess soils of Iowa, where a total of about 600 plants currently exist. Now, 13 populations are known extant from 11 Iowa counties (D. Howell, Iowa Department of Natural Resources, pers. comm. 1987). Most populations are small, with the largest consisting of about 275 plants. Six of the Iowa populations are in public or private conservation ownership and are managed by burning or mowing.

Platanthera praeclara originally was widespread in eastern Nebraska (Bowles and Duxbury 1986). A highly questionable historic record from 1842 attributed to Wyoming is now considered to be from Western Nebraska. Now, five populations are known from four counties. Two populations are small (less than 20 plants each) and disjunct in western Nebraska; one occurs on private land, while the other is on Federal land administered by the U.S. Fish and

Wildlife Service. Neither is managed for the orchids, and the Federally owned tract is undergoing brush invasion. Three other sites in eastern Nebraska are on private or public land managed for conservation. The largest population consists of about 150 plants.

Two large scattered populations occur in Minnesota and North Dakota, each with 1000-2000 plants (Smith 1981, Bowles and Duxbury 1986). The North Dakota population represents the type locality for *Platanthera praeclara* (Sheviak and Bowles 1986) and occurs on Federally owned sand prairie managed by the U.S. Forest Service for grazing. Research is needed to determine what effects current management has on the orchids, and if increases in grazing intensity would negatively affect their populations. Nine subpopulations occur in four Minnesota counties. The largest is in protected ownership and is found at five sites with about 500 plants. This orchid recently was discovered in similar prairie habitat in Manitoba (Brownell 1984).

Federal Government action on these plants began as a result of Section 12 of the Endangered Species Act of 1973, which directed the Secretary of the Smithsonian Institution to prepare a report on plants considered to be endangered, threatened, or extinct. This report (Ayensu and DeFilipps 1978), designated as House Document No. 94-51, was presented to Congress on January 9, 1975. *Platanthera leucophaea*, which at that time was placed in the genus *Habenaria* and included in part the then undescribed *P. praeclara*, was listed as "threatened" in that document. On July 1, 1975, the Service published a notice in the Federal Register (40 FR 27823) of its acceptance of the Smithsonian report as a petition within the context of section 4(c)(2) of the Act (now section 4(b)(3)) and of its intention to review the status of plant taxa named within. On June 16, 1976, the Service published a proposed rule in the Federal Register (41 FR 24523) to determine approximately 1,700 vascular plant species to be endangered species pursuant to section 4 of the Act. The list of 1,700 plant taxa was assembled on the basis of comments and data received by the Smithsonian Institution and the Service in response to House Document No. 94-51 and the July 1, 1975, Federal Register publication.

Platanthera leucophaea was included in the July 1, 1975, notice of review and the June 16, 1976, proposal. General comments received in relation to the 1976 proposal were summarized in the Federal Register on April 26, 1978 (43 FR 17909). On December 10, 1979, the

Service published a notice (44 FR 70796) withdrawing the portion of the June 16, 1976, proposal that had not been made final, along with four other proposals that had expired due to a procedural requirement of the 1978 Amendments to the Act. On December 15, 1980 (45 FR 82479), and September 27, 1985 (50 FR 39525), the Service published revised notices of review for native plants in the **Federal Register**. *Platanthera leucophaea* (including in part the then yet underscribed *P. praeclara*) initially was included in those notices as a category 1 species. Category 1 species are those for which biological information in the Service's possession warrants listing as endangered or threatened. Later, this orchid was dropped to category 2, indicating that further biological research and field study were needed to ascertain its status.

The Endangered Species Act Amendments of 1982 required that all petitions pending as of October 13, 1982, be treated as having been submitted on that date. The deadline for a finding on those species, including *Platanthera leucophaea*, was October 13, 1983. On October 13, 1983, and again in 1984, 1985, 1986, and 1987, the petition finding was that listing of *Platanthera leucophaea* was warranted pending finding of further biological information but precluded by other pending listing actions, in accordance with section 4(b)(3)(B)(iii) of the Act. Such a finding requires that the petition be recycled, pursuant to section 4(b)(3)(C)(i) of the Act. The present proposal constitutes the final finding that the listing is warranted. The Service proposes to implement the petitioned action in accordance with section 4(b)(3)(B)(ii) of the Act.

Status reports compiled by Brower (1977), Alverson (1981), Bowles and Kurz (1981), Chapman (1981), Hauser et al. (1981), Morgan (1980), Smith (1981), Spooner (1981), Tyrl et al. (1978), Watson (1983), Brownell (1984), and Bowles and Duxbury (1986), as well as other pertinent literature (see: REFERENCES) provide the biological basis for this proposed rule. The data demonstrate a historic decline in distribution and population levels, and continuing threats to remaining populations.

Summary of Factors Affecting the Species

Section 4(a)(1) of the Endangered Species Act (16 U.S.C. 1531 *et seq.*) and regulations promulgated to implement the listing provisions of the Act (50 CFR Part 424) set forth the procedures for adding species to the Federal lists. A

species may be determined to be endangered or threatened due to one or more of the five factors described in section 4(a)(1). These factors and their application to *Platanthera praeclara* (Nutt.) Lindl. and *Platanthera leucophaea* Sheviak and Bowles are as follows:

A. *The present or threatened destruction, modification, or curtailment of its habitat or range.* The prairie fringed orchids have declined significantly throughout their ranges due to conversion of most of their habitats to cropland, overgrazing, intensive hay mowing, drainage, and fire protection; these and related threats continue. Many of the largest *Platanthera leucophaea* populations occur in habitats supporting successional vegetation. Without management these populations may decline in response to changing vegetation patterns. Many other populations are small and occur on small isolated prairie remnants, where seed set and reproduction is limited by dependence on chance visitation from pollinators. Over 35 percent of the known populations of *Platanthera praeclara* occur in hay meadows, primarily in the southern portion of this orchid's range. These plants seldom are seen, and populations apparently are small. Hay mowing annually removes seed capsules and plant biomass before natural seed dispersal can occur. This prevents recruitment of seedlings into populations and probably weakens adult plants, resulting in gradual population decline through attrition (Bowles 1983, Bowles and Duxbury 1986). Changing land use also threatens hay meadow populations. At least four Kansas hay meadows known to support *Platanthera praeclara* populations have been converted to agriculture since their discovery in the 1970's, while one Oklahoma hay meadow now is threatened with subdivision (Bowles and Duxbury 1986).

B. *Overutilization for commercial, recreational, scientific, or educational purposes.* Native terrestrial orchids rarely are grown from seed; adult plants often are sought after for scientific and commercial purposes, or for private gardens. Smaller populations of the prairie fringed orchids would be negatively impacted by collecting. Because of higher human population densities in the east, the eastern prairie fringed orchid is subject to greater scientific and commercial pressures; at least one Michigan population was impacted by removal of plants. However, because of the recent description of *Platanthera praeclara*

(western prairie fringed orchid) and its usually small populations, overcollecting may be a serious problem for this species. At least one instance of removal of a western prairie fringed orchid plant for commercial purposes has taken place in Minnesota.

C. *Disease or predation.* No diseases are known to be adversely impacting either prairie fringed orchid species. All inflorescences were removed from one Minnesota population of *Platanthera praeclara* by an unknown herbivore, but the long term impact remains unknown. Conehead grasshoppers (Orthoptera: *Neoconocephalus*) occasionally are observed eating the flowers or fruits of these orchids. However, the major predator is man through use of this orchid and its community for pasture or hay. Long term overgrazing or haying apparently leads to population decline because plants either are harvested or are not allowed to complete their life cycles.

D. *The inadequacy of existing regulatory mechanisms.* The prairie fringed orchids are formally or officially listed as endangered, threatened, or rare in nine states (IA, IL, MI, MN, MO, NE, ND, OH, WI) throughout their range. However, only a few states where these species are extant offer protection is listed plants beyond that afforded by their presence on public lands. State laws of Illinois, Iowa, Minnesota, Michigan, and Missouri prohibit the removal and sale of listed plants. In Wisconsin, Ohio, and New York it is illegal to harvest endangered or threatened plants. Although *Platanthera leucophaea* and *P. praeclara* are offered various forms of recognition or protection under state laws, the Endangered Species Act offers possibilities for protection through section 6 by cooperation between States and the Service, and cooperation through section 7 (interagency cooperation) requirements. The plants are considered rare in Canada, but are not afforded any official designation or protection.

E. *Other natural or manmade factors affecting its continued existence.* Pollination of the prairie fringed orchids is required for seed set, and is accomplished only by hawkmoths (Sphingidae). As a result, long-term population survival requires maintenance of hawkmoths. Any threat to these insects, (such as the use of insecticides) or their habitats and food plants, is a threat to survival of prairie fringed orchids.

The Service has carefully assessed the best scientific information available regarding the past, present, and future

threats faced by these taxa, in determining to propose this rule. Based on this evaluation, the preferred action is to list *Platanthera leucophaea* and *Platanthera praeclara* as threatened species, because of the known loss of most of their populations and habitat, and continued threats to existing populations. For reasons detailed below, it is not considered prudent to propose designation of critical habitat.

Critical Habitat

Section 4(a)(3) of the Act, as amended, requires that, to the maximum extent prudent and determinable, the Secretary designate any habitat of a species that is considered to be critical habitat at the time the species is determined endangered or threatened. The designation of critical habitat is not considered to be prudent when such designation would not be of net benefit to the species involved (50 CFR 424.12). In the present case, the Service believes that designation of critical habitat would not be prudent because no benefit to the taxon can be identified that would outweigh the potential threat of vandalism or collection, which might be exacerbated by the publication of a detailed critical habitat description.

Available Conservation Measures

Conservation measures provided to species listed as endangered or threatened under the Endangered Species Act include recognition, recovery actions, requirements for Federal protection, and prohibitions against certain practices. Recognition through listing encourages and results in conservation actions by Federal, State, and private agencies, groups, and individuals. The Endangered Species Act provides for land acquisition, if necessary, and cooperation with the States; it also requires that recovery actions be carried out for all listed species. These actions are initiated by the Service following listing. Some may be undertaken prior to listing, circumstances permitting. Potential habitat management actions that might benefit *Platanthera leucophaea* and *P. praeclara* include: evaluation and specific management actions on public lands to enhance orchid populations, land protection measures which will reduce frequent disturbance to both species' habitat, and a program for landowners to educate them about the nature of their orchid populations and how they might alter management of their property to benefit these species. The protection required by Federal agencies and applicable prohibitions are discussed below.

Section 7(a) of the Act, as amended, requires Federal agencies to evaluate their actions with respect to any species that is proposed or listed as endangered or threatened and with respect to its critical habitat, if any is being designated. Regulations implementing this interagency cooperation provision of the Act are codified at 50 CFR Part 402. Section 7(a)(4) requires Federal agencies to confer informally with the Service on any action that is likely to jeopardize the continued existence of a proposed species or result in destruction or adverse modification of proposed critical habitat. When a species is listed, section 7(a)(2) requires Federal agencies to ensure that activities they authorize, fund, or carry out are not likely to jeopardize the continued existence of such a species or to destroy or adversely modify its critical habitat, the responsible Federal agency must enter into formal consultation with the Service.

No Federal involvement is expected for *Platanthera leucophaea* since the species is not known to occur on Federal lands. *Platanthera praeclara* is known to occur on lands under the jurisdiction of the U.S. Fish and Wildlife Service. Grazing management plans on the Valentine National Wildlife Refuge should consider the effects livestock has on the species. A population monitoring program for *P. praeclara* should be initiated. A widely scattered population of *P. praeclara* in North Dakota is found within the boundaries of the Sheyenne Valley National Grassland. This population extends over several thousand acres managed by the U.S. Forest Service which in turn leases the area to the Sheyenne Valley Grazing Association for livestock production. The Forest Service and the Grazing Association are aware of the *P. praeclara* populations. The species is found on 25 of the 58 allotments within the Sheyenne Valley National Grassland. A cooperative monitoring system involving the Forest Service, the Sheyenne Valley Grazing Association, and the Fish and Wildlife Service should be initiated. Research is also needed to better understand which types of management actions within the Grassland area might be beneficial to *P. leucophaea*. Cooperative discussions between the Forest Service, the Grazing Association, and the Service have been initiated. It will be necessary for the Forest Service to enter into consultation with the Service so that *Platanthera praeclara* plants are considered in the course of activities carried out by the Sheyenne Valley Grazing Association. It has been the experience of the Service

that the majority of section 7 consultations are resolved so that the species is protected and the project can continue.

The Act and its implementing regulations found at 50 CFR 17.71 and 17.72 set forth a series of general trade prohibitions and exceptions that apply to all threatened plant species. With respect to *Platanthera leucophaea* and *P. praeclara*, all trade prohibitions of section 9(a)(2) of the Act, as implemented by 50 CFR 17.71, would apply. These prohibitions, in part, would make it illegal for any person subject to the jurisdiction of the United States to import or export, transport in interstate or foreign commerce in the course of a commercial activity, sell or offer for sale these species in interstate or foreign commerce, or remove them from areas under Federal jurisdiction and reduce them to possession. Seeds from cultivated specimens of threatened plant species are exempt from these prohibitions provided that a statement of "cultivated origin" appears on their containers. Certain exceptions would apply to agents of the Service and State conservation agencies. The Act and 50 CFR 17.72 also provide for the issuance of permits to carry out otherwise prohibited activities involving threatened species under certain circumstances. It is anticipated that some trade permits would be issued because these plants belong to the orchid family, species of which now are sought for cultivation.

On July 1, 1975, *Platanthera leucophaea* was included in Appendix II of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), which is implemented through section 8A of the Act. The effect of this listing is that both export and import permits are required before international shipment may occur. Such shipment is strictly regulated by CITES member nations to prevent if from being detrimental to the survival of the species, and cannot be allowed if it is for primarily commercial purposes. If plants are certified as artificially propagated, however, international shipment requires only export documents under CITES, and commercial shipments may be allowed. Requests for copies of the regulations on plants and inquiries regarding them may be addressed to the Office of Management Authority, P.O. Box 27329, U.S. Fish and Wildlife Service, Washington, DC 20038-7329, (202/343-4955).

Public Comments Solicited

The Service intends that any final rule adopted will be accurate and as effective as possible in the conservation of endangered or threatened species. Therefore, any comments or suggestions from the public, other concerned governmental agencies, the scientific community, industry, or any other party concerning any aspect of this proposed rule, are hereby solicited. Comments particularly are sought concerning:

(1) Biological, commercial trade, or other relevant data concerning any threat (or lack thereof) to *Platanthera leucophaea* and *P. praeclara*;

(2) The location of any additional population of *Platanthera leucophaea* and *P. praeclara* and the reasons why any habitat of this species should or should not be determined to be critical habitat as provided by Section 4 of the Act;

(3) Additional information concerning the range and distribution of these species; and

(4) Current or planned activities in the subject area and their possible impacts on *Platanthera leucophaea* and *P. praeclara*.

Final promulgation of the regulation on *Platanthera leucophaea* and *P. praeclara* will take into consideration the comments and any additional information received by the Service, and such communications may lead to adoption of a final regulation that differs from this proposal.

The Endangered Species Act provides for a public hearing on this proposal, if requested. Request must be filed within 45 days of the date of the proposal. Such request must be made in writing and addressed to the Regional Director, U.S. Fish and Wildlife Service, Federal Building, Fort Snelling, Twin Cities, Minnesota 55111.

National Environmental Policy Act

The Fish and Wildlife Service has determined that Environmental Assessments, as defined under the authority of the National Environmental Policy Act of 1969, need not be prepared in connection with regulations adopted pursuant to section 4(a) of the Endangered Species Act of 1973, as amended. The reasons for this determination were published in the *Federal Register* October 25, 1983 (48 FR 49244).

Reference Cited

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Author

The primary author of this proposed rule is William F. Harrison (see ADDRESSES section). Preliminary documentation was prepared under contract by Marlin L. Bowles, The Morton Arboretum, Lisle, IL.

List of Subjects in 50 CFR Part 17

Endangered and threatened Wildlife, Fish, and Marine mammals, Plants (agriculture).

Proposed Regulation Promulgation

Accordingly, it is hereby proposed to amend Part 17, subchapter B of chapter I, Title 50 of the Code of Federal Regulations, as set forth below:

PART 17—[AMENDED]

1. The authority citation for Part 17 continues to read as follows:

Authority: Pub. L. 93-205, 87 Stat. 884; Pub. L. 94-359, 90 Stat. 911; Pub. L. 95-632, 92 Stat. 3751; Pub. L. 96-159, 93 Stat. 1225; Pub. L. 97-304, 96 Stat. 1411 (16 U.S.C. 1531 et seq.); Pub. L. 99-625, 100 Stat. 3500 (1986), unless otherwise noted.

2. It is proposed to amend § 17.12(h) by adding the following, in alphabetical order under Orchidaceae, to the List of Endangered and Threatened Plants:

§ 17.12 Endangered and threatened plants.

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(h) * * *

Species		Historic range	Status	When listed	Critical habitat	Special rules
Scientific name	Common name					

Orchidaceae—Orchid family:

Species		Historic range	Status	When listed	Critical habitat	Special rules
Scientific name	Common name					
<i>Platanthera leucophea</i>	Eastern prairie fringed orchid	U.S.A. (IL, NY, PA, NJ, MI, IN, OK, LA, OH, AR, MO, IA, ME, VA, MN), Canada (ON, NB).	T	NA	NA
<i>Platanthera praecleara</i>	Western prairie fringed orchid	U.S.A. (IA, MN, MO, NE, ND, KS, OK, SD), Canada (MB).	T	NA	NA
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Dated: September 26, 1988.

Susan Reece,

Acting Assistant Secretary for Fish and
Wildlife and Parks.

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